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## Asthma

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**Definition:** Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma.

### Prevalence of Asthma

- South Dakota 6.7%
- Nationwide median 8.2%

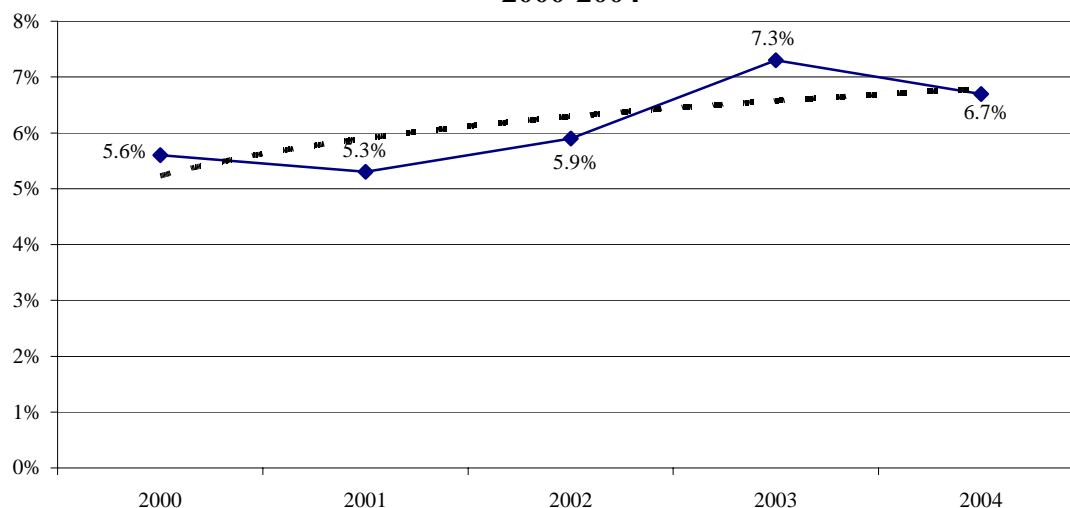
### Healthy People 2010 Objective

*There was no stated Healthy People 2010 Objective for having asthma.*

### Trend Analysis

Since this question was first asked in 2000, the percent of respondents who stated they were told they have asthma has increased from 5.6 percent in 2000 to a high of 7.3 percent in 2003. However, in 2004 the percent of respondents that were told they have asthma decreased to 6.7 percent.

**Figure 50**  
**Percent of Respondents Who Were Told They Have Asthma,**  
**2000-2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2004

### Demographics

<b>Gender</b>	Females exhibit a significantly higher prevalence of current asthma than males. This gender difference is evident in specific demographic categories including whites and those in the southeast region.
<b>Age</b>	The prevalence of current asthma generally increases for males as age increases. However, this increase in asthma as age increases is not evident in females.
<b>Race</b>	There are no racial differences demonstrated by the available data.
<b>Region</b>	The are no regional differences observed from the available data.

<b>Household Income</b>	The prevalence of current asthma does not seem to follow a pattern as household income increases.
<b>Education</b>	The prevalence of current asthma is significantly lower for male college graduates than males with an education of eight years or less. However, the prevalence of current asthma in females doesn't seem to follow a pattern as education increases.
<b>Employment Status</b>	Those who are unable to work or unemployed demonstrate a very high prevalence of current asthma, while those who are employed for wages, self-employed, or a homemaker show a very low prevalence.
<b>Marital Status</b>	Females who are divorced exhibit a very high prevalence of current asthma, while females who are married show a very low prevalence. Males do not show this same difference.

**Table 76**  
**Respondents Who Were Told They Have Asthma, 2004**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>6,116</b>	<b>6.7</b>	<b>(5.9-7.5)</b>	<b>2,515</b>	<b>5.1</b>	<b>(4.2-6.2)</b>	<b>3,601</b>	<b>8.1</b>	<b>(6.9-9.5)</b>
<b>Age</b>									
18-24	336	8.3	(5.2-13.0)	148	3.7	(1.6-8.1)	188	13.1	(7.6-21.7)
25-34	785	5.0	(3.5-7.0)	335	4.4	(2.5-7.6)	450	5.6	(3.7-8.5)
35-44	1,030	4.4	(3.2-6.0)	428	3.4	(2.0-5.8)	602	5.4	(3.7-7.8)
45-54	1,273	7.5	(5.9-9.3)	567	5.2	(3.5-7.9)	706	9.8	(7.5-12.7)
55-64	959	7.5	(5.9-9.6)	404	6.7	(4.5-9.8)	555	8.4	(6.1-11.3)
65-74	885	8.7	(6.9-11.0)	367	7.6	(5.1-11.2)	518	9.6	(7.1-12.8)
75+	828	7.0	(5.2-9.3)	261	8.2	(5.0-13.1)	567	6.2	(4.4-8.7)
<b>Race</b>									
White	5,472	6.6	(5.7-7.5)	2,266	5.2	(4.3-6.4)	3,206	7.8	(6.6-9.3)
American Indian	431	10.1	(6.5-15.4)	163	4.5	(1.7-11.8)	268	14.6	(9.0-22.8)
<b>Region</b>									
Southeast	1,514	6.0	(4.6-7.9)	625	3.5	(2.3-5.4)	889	8.4	(6.0-11.7)
Northeast	1,386	6.7	(5.4-8.4)	556	5.0	(3.3-7.7)	830	8.3	(6.4-10.8)
Central	1,148	8.0	(6.3-10.2)	463	7.0	(4.5-10.7)	685	9.0	(6.7-11.8)
West	1,425	6.7	(5.4-8.2)	601	6.6	(4.8-9.1)	824	6.7	(5.1-8.8)
American Indian Counties	643	8.0	(6.0-10.8)	270	6.2	(3.5-10.6)	373	9.9	(7.0-13.7)
<b>Household Income</b>									
Less than \$10,000	304	10.3	(7.0-14.9)	*	*	*	*	*	*
\$10,000-\$14,999	367	9.1	(6.1-13.4)	100	6.8	(2.6-16.5)	267	10.4	(6.8-15.5)
\$15,000-\$19,999	505	9.2	(5.5-15.1)	188	8.5	(5.0-13.9)	317	9.9	(4.4-20.7)
\$20,000-\$24,999	673	6.8	(4.6-10.0)	263	5.8	(3.0-10.8)	410	7.7	(4.7-12.4)
\$25,000-\$34,999	978	6.5	(4.9-8.5)	433	5.0	(3.2-7.8)	545	8.1	(5.7-11.4)
\$35,000-\$49,999	1,044	5.5	(4.1-7.4)	475	4.2	(2.5-6.8)	569	7.0	(4.9-9.9)
\$50,000-\$74,999	908	4.2	(2.9-6.0)	407	2.3	(1.2-4.4)	501	6.1	(3.9-9.3)
\$75,000+	717	6.1	(4.4-8.5)	378	6.0	(3.8-9.5)	339	6.2	(3.9-9.7)
<b>Education</b>									
8th Grade or Less	257	10.2	(6.7-15.2)	131	12.0	(7.0-19.7)	126	7.5	(3.9-13.9)
Some High School	323	5.5	(3.2-9.3)	137	3.8	(1.2-11.0)	186	7.4	(4.2-12.7)
High School or G.E.D.	2,013	5.9	(4.7-7.4)	858	4.1	(2.8-5.8)	1,155	7.8	(5.9-10.3)
Some Post-High School	1,734	7.9	(6.2-10.0)	646	6.7	(4.8-9.3)	1,088	8.9	(6.4-12.2)
College Graduate	1,776	6.0	(4.9-7.4)	738	4.3	(2.9-6.3)	1,038	7.8	(6.1-9.9)

Table 76 (continued) Respondents Who Were Told They Have Asthma, 2004									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Employment Status</b>									
Employed for Wages	3,039	5.4	(4.6-6.4)	1,246	4.0	(2.9-5.4)	1,793	7.0	(5.7-8.5)
Self-employed	827	5.2	(3.7-7.3)	546	5.5	(3.6-8.2)	281	4.5	(2.4-8.2)
Unemployed	147	15.0	(7.8-27.0)	*	*	*	*	*	*
Homemaker	288	5.8	(3.6-9.3)	*	*	*	*	*	*
Student	134	11.6	(5.5-22.5)	*	*	*	*	*	*
Retired	1,497	7.9	(6.5-9.6)	527	7.9	(5.7-10.8)	970	7.9	(6.3-10.0)
Unable to Work	181	16.1	(11.0-22.8)	*	*	*	*	*	*
<b>Marital Status</b>									
Married/Unmarried Couple	3,641	6.0	(5.2-6.9)	1,571	5.1	(4.1-6.4)	2,070	6.9	(5.7-8.2)
Divorced/Separated	814	8.8	(6.9-11.2)	353	5.9	(3.7-9.2)	461	11.4	(8.5-15.2)
Widowed	888	6.6	(5.0-8.6)	164	3.8	(1.5-8.9)	724	7.3	(5.4-9.7)
Never Married	760	8.2	(5.5-12.0)	423	4.9	(2.9-8.0)	337	13.6	(7.9-22.4)

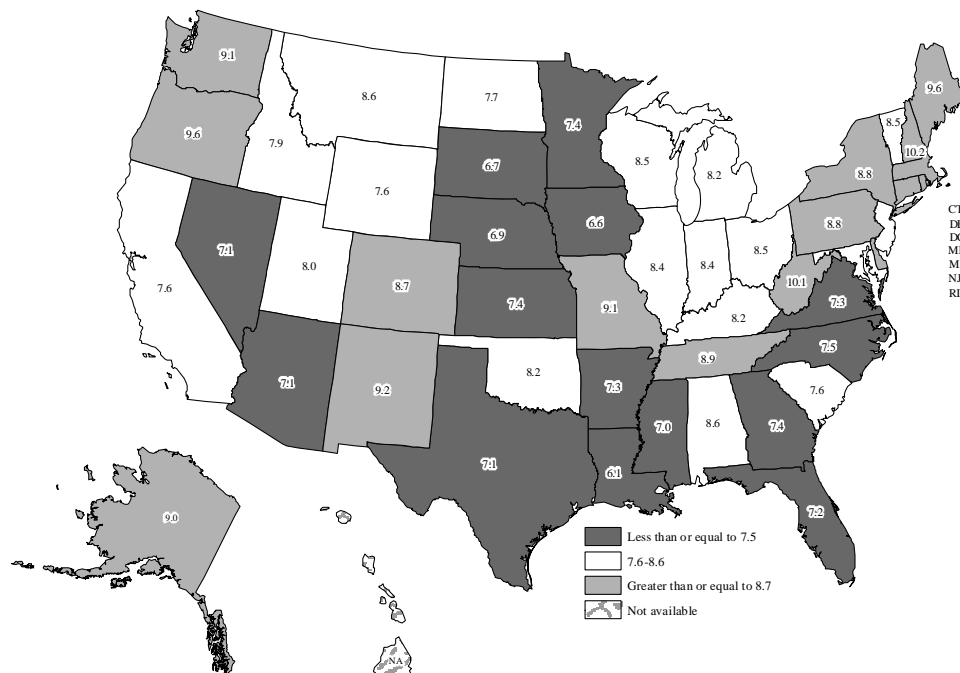
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## National Statistics

The national median for respondents who have asthma was 8.2 percent. South Dakota had 6.7 percent of respondents who have asthma. Louisiana had the lowest percent of respondents who have asthma with 6.1 percent, while New Hampshire had the highest percent of respondents who have asthma with 10.2 percent.

**Figure 51**  
**Nationally, Respondents Who Were Told They Have Asthma, 2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## **Further Analysis**

Following are data illustrating the percent of those who have asthma for various health behaviors and conditions. For example, 15.0 percent of respondents who stated they have fair or poor health have asthma, while 5.5 percent of respondents who stated they have excellent, very good, or good health status have asthma.

<b>Table 77</b>			
<b>Have Asthma for Selected Health Behaviors and Conditions, 2004</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Asthma</b>	<b>95% CI</b>
Fair or Poor Health Status	947	15.0	12.2-18.3
Excellent, Very Good, or Good Health Status	5,155	5.5	4.7-6.4
Physical Health Not Good for 30 Days of the Past 30	389	17.1	12.2-23.5
Physical Health Not Good for 0-29 Days of the Past 30	5,673	6.1	5.4-7.0
Mental Health Not Good for 20-30 Days of the Past 30	344	11.3	7.1-17.4
Mental Health Not Good for 0-19 Days of the Past 30	5,709	6.4	5.6-7.3
Usual Activities Unattainable for 10-30 Days of the Past 30	394	17.7	13.1-23.4
Usual Activities Unattainable for 0-9 Days of the Past 30	5,701	6.0	5.2-6.8
Obese (BMI = 30.0+)	1,536	9.0	7.5-10.9
Overweight (BMI = 25.0-29.9)	2,260	5.4	4.5-6.5
Recommended Weight (BMI = 18.5-24.9)	2,040	6.9	5.3-8.8
No Leisure Time Physical Activity	1,320	7.3	5.9-9.0
Leisure Time Physical Activity	4,793	6.5	5.6-7.5
Current Smoker	1,218	7.9	5.9-10.5
Former Smoker	1,599	7.5	6.2-9.0
Never Smoked	3,291	5.9	4.9-7.0
Drank Alcohol in Past 30 Days	3,271	6.0	5.0-7.3
No Alcohol in Past 30 Days	2,808	7.6	6.5-8.9
Binge Drinker	792	6.3	4.4-9.0
Not a Binge Drinker	5,268	6.7	5.9-7.7
Heavy Drinker	205	11.0	5.3-21.3
Not a Heavy Drinker	5,837	6.5	5.8-7.4
No Mammogram within Past Two Years (40+)	654	7.5	5.4-10.3
Mammogram within Past Two Years (40+)	1,995	8.1	6.9-9.6
No Clinical Breast Exam within Past Two Years	683	6.1	4.4-8.4
Clinical Breast Exam within Past Two Years	2,871	8.6	7.2-10.2
Insufficient Cervical Cancer Screening	400	6.3	4.0-9.6
Sufficient Cervical Cancer Screening	2,237	7.7	6.1-9.6
No PSA Test within Past Two Years (40+)	801	4.6	3.2-6.5
PSA Test within Past Two Years (40+)	968	7.2	5.5-9.2
No Digital Rectal Exam within Past Two Years (40+)	815	5.2	3.8-7.1
Digital Rectal Exam within Past Two Years (40+)	1,007	6.8	5.2-8.8
No Blood Stool Test within Past Two Years (50+)	2,411	6.9	5.9-8.1
Blood Stool Test within Past Two Years (50+)	883	10.6	8.5-13.2
Never Had Sigmoidoscopy or Colonoscopy (50+)	1,647	6.8	5.5-8.3
Ever Had Sigmoidoscopy or Colonoscopy (50+)	1,667	9.1	7.7-10.8
Haven't Been to the Dentist in the Past 12 Months	1,839	7.2	5.9-8.9
Been to the Dentist in the Past 12 Months	4,266	6.4	5.5-7.5
Not Taking any Precautions Against West Nile Virus	1,906	5.5	4.4-7.0
Taking Precautions Against West Nile Virus	4,042	7.4	6.4-8.6
No Health Insurance (18-64)	366	6.8	3.8-11.9
Health Insurance (18-64)	3,890	6.5	5.6-7.6

**Table 77 (continued)**  
**Have Asthma for Selected Health Behaviors and Conditions, 2004**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Asthma</b>	<b>95% CI</b>
Employer Based Health Insurance Coverage (18-64)	2,667	6.2	5.1-7.5
Private Health Insurance Plan (18-64)	531	5.5	3.5-8.5
Medicare (18-64)	114	10.6	6.1-17.9
Medicaid or Medical Assistance (18-64)	111	13.8	8.5-21.7
The Military, CHAMPUS, TriCare, or the VA (18-64)	183	6.0	3.1-11.4
The Indian Health Service (18-64)	235	7.0	3.8-12.5
No Flu Shot (65+)	419	4.5	2.8-7.1
Flu Shot (65+)	1,289	8.7	7.1-10.7
No Pneumonia Shot (65+)	579	3.5	2.2-5.7
Pneumonia Shot (65+)	1,112	10.1	8.3-12.3
Diabetes	527	12.3	9.4-16.0
No Diabetes	5,588	6.3	5.5-7.2
Previously Had a Heart Attack	369	13.2	9.8-17.5
Never Had a Heart Attack	5,602	6.5	5.7-7.4
Have Angina or Coronary Heart Disease	399	15.5	11.9-19.9
Do not Have Angina or Coronary Heart Disease	5,553	6.2	5.4-7.2
Previously Had a Stroke	191	11.8	7.8-17.3
Never Had a Stroke	5,777	6.7	5.9-7.6
Physical, Mental, or Emotional Disability	1,248	16.4	13.5-19.9
No Physical, Mental, or Emotional Disability	4,792	4.7	4.1-5.5
Disability with Special Equipment Needed	447	16.3	12.7-20.7
No Disability with Special Equipment Needed	5,596	6.2	5.4-7.1
Four or More Hours of TV Watched per Day	1,419	8.1	6.4-10.1
Less Than Four Hours of TV Watched per Day	4,507	6.5	5.6-7.6
Sick from Poor Indoor Air Quality in Past Year	1,003	15.6	12.9-18.8
Not Sick from Poor Indoor Air Quality in Past Year	5,066	4.8	4.1-5.6
Sick from Outdoor Air Pollution in Past Year	421	21.7	17.4-26.6
Not Sick from Outdoor Air Pollution in Past Year	5,671	5.6	4.8-6.4
Firearm in Household	3,363	5.8	4.9-6.8
No Firearms in Household	2,520	8.2	6.7-10.0
Loaded and Unlocked Firearm in Household	271	6.9	4.0-11.6
No Loaded and Unlocked Firearms in Household	5,574	6.7	5.9-7.7
No Birth Control (females 18-44 & males 18-59)	332	4.2	2.3-7.6
Birth Control (females 18-44 & males 18-59)	1,685	5.0	3.9-6.3
Never Been Tested for HIV (18-64)	3,078	5.9	4.9-7.1
Been Tested for HIV (18-64)	1,150	8.3	6.4-10.7
Sunburn in Past 12 Months	2,163	5.5	4.4-6.8
No Sunburn in Past 12 Months	3,943	7.5	6.5-8.7
Military Veteran	1,008	5.8	4.3-7.8
Not a Military Veteran	5,094	6.8	6.0-7.8

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004